

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in this application.

Listing of Claims:

1. (Currently amended) A dental crown ~~formed of a thermoplastic polymer material, said crown~~ having a natural appearance of a vital tooth and comprising

a tooth shaped top surface and

depending flexible side surfaces extending continuously around edges of said tooth shaped top surface and extending continuously from a tooth shaped top surface end of the dental crown to an end opposite said tooth shaped top surface end of the dental crown,

at least one of said depending flexible continuous side surfaces having ~~a relief on it's inner surface corresponding to a bent portion, located so as to define~~ an inner surface shaped with an undercut defining an inwardly directed bottom portion directed inwardly from said bent portion; said relief in at least one of the flexible side surfaces enabling the dental crown to be used for treatment of primary teeth and permanent molars,

wherein said dental crown is formed of a resilient and dimensionally stable thermoplastic material such that said dental crown returns to its original shape upon being applied to and removed from a patient's dentition.
2. (Original) A dental crown according to claim 1, wherein said thermoplastic polymer material comprising a polymer selected from polyacetal, polyacrylate, polymethylmethacrylate (PMMA), polyamide, polyaryletherketone (PAEK), polyetherketone (PEK), polyetheretherketone (PEEK), polyetherimide (PEI), polyethersulfone (PES), polysulfone (PSU), and mixtures thereof.

3. (Previously presented) A dental crown according to claim 2, wherein said polymer is a homo- or co-polymer of acetal resin, polyetheretherketone (PEEK) or polymethylmethacrylate (PMMA).
4. (Original) A dental crown according to claim 1, wherein said thermoplastic polymer material further comprising at least one of the following: fibers, fillers, pigments and reinforcements.
5. (Original) A dental crown according to claim 1, formed by injection molding.
6. (Previously presented) A dental crown according to claim 5, produced by a mass production injection molding method, said mass production injection molding method comprising:
providing a multi-element mold; and
employing the multi-element mold to injection mold a dental crown from a thermoplastic polymer material.
7. (Original) A dental crown according to claim 6, wherein said multi-element mold includes an ejector, which is being operated to eject the molded crown following opening the multi-element mold.
8. (Original) A dental crown according to claim 1, formed by compression molding.
9. (Original) A dental crown according to claim 1, formed by machining.